



**WebSphere Extended Deployment for z/OS V6.0.1
Customization Guide**

Note

Before using this information, be sure to read the general information under “Notices” on page 7.

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Customizing WebSphere Extended Deployment for z/OS V6.0.1

This section describes the steps for customizing WebSphere Extended Deployment for z/OS V6.0.1. The WebSphere Extended Deployment customization process adds WebSphere Extended Deployment capabilities to a pre-existing WebSphere Application Server Network Deployment environment.

You must first install WebSphere Extended Deployment for z/OS V6.0.1 before customizing it. Refer to the WebSphere Extended Deployment for z/OS V6.0.1 Program Directory for installation instructions, located on the WebSphere Extended Deployment Library page.

After you have installed WebSphere Extended Deployment, you must customize the deployment manager and application server nodes in a pre-existing WebSphere Application Server Network Deployment cell. It is not necessary to add WebSphere Extended Deployment to all application server nodes in a WebSphere cell. You must customize WebSphere Extended Deployment only on those application server nodes on which you want to use WebSphere Extended Deployment function.

The high level steps for customizing a pre-existing Network Deployment cell are:

1. Perform WebSphere Extended Deployment customization for the deployment manager
2. Perform WebSphere Extended Deployment customization for each application server node to which you want to add WebSphere Extended Deployment function.

The following two sections describe each of these tasks:

1. Customizing the deployment manager in WebSphere Extended Deployment for z/OS
2. Customizing application servers in the z/OS WebSphere Extended Deployment Environment

Customizing the deployment manager in WebSphere Extended Deployment for z/OS

To add WebSphere Extended Deployment for z/OS V6.0.1 to a WebSphere Application Network Deployment cell, you must first add WebSphere Extended Deployment to the deployment manager node. This topic describes the steps to accomplish this task.

You must first install WebSphere Extended Deployment for z/OS V6.0.1 before customizing it. Refer to the WebSphere Extended Deployment for z/OS V6.0.1 Program Directory for installation instructions, located on the WebSphere Extended Deployment Library page.

Follow these steps to add WebSphere Extended Deployment for z/OS to a pre-existing Deployment Manager profile.

1. Launch the customization dialog from TSO using this command:
ex '<was-h1q>.sbboclib(bbowstrt)' 'prod(eex) prodh1q(<xd-h1q>)'

where:

<was-h1q> is the dataset high level qualifier for the WebSphere Application Server for z/OS product datasets.

Note: Use the level of WebSphere Application Server specified in the WebSphere Extended Deployment for z/OS V6.0.1 Program Directory.

<xd-h1q> is the dataset high level qualifier for the WebSphere Extended Deployment for z/OS product datasets.

2. Choose option 5 in the customization dialog, **WebSphere Application Server-based add-on products**. Then, choose **WebSphere Extended Deployment**.
3. Follow steps a through d (options 1-4 on the customization dialog panel) for **WebSphere Extended Deployment**:
 - a. Allocate datasets to hold WebSphere Extended Deployment customization jobs and data.
 - b. Define the variables for the WebSphere Extended Deployment SMP/E home directory and the WebSphere Application Server home directory. The WebSphere Extended Deployment SMP/E home directory is the directory where WebSphere Extended Deployment was installed. For example,
`/usr/lpp/zWebSphereXD/V6R0`
The WebSphere Application Server home directory is the directory of the WebSphere Application Server instance to which you want to add WebSphere Extended Deployment. For example,
`/WebSphere/V6R0/DeploymentManager`
If the WebSphere cell to which you are adding WebSphere Extended Deployment has security enabled, you must specify **Y** to indicate security is enabled and specify the userid and password of your WebSphere administrator ID. This ID must be authorized to login to the WebSphere console and be granted the administrator role.
 - c. Generate the customization jobs for this WebSphere instance.
 - d. View and follow the customization instructions. The instructions are found in member EEXINS of the <h1q>.CNTL dataset, which you allocated in Step 1 of the WebSphere Extended Deployment customization steps, as described previously.
4. Ensure the deployment manager is stopped.
5. The customization instructions indicate to execute jobs in this order: EEXSTEP1, EEXSTEP2, and EEXSTEP3. Each job should end with a return code of zero. These jobs are found in the <h1q>.CNTL dataset, which you allocated in Step 1 of the WebSphere Extended Deployment customization steps, as described previously.
6. Start the deployment manager.

The deployment manager is customized for the WebSphere Extended Deployment environment.

After the deployment manager is customized, you can customize any of the application server nodes in the same cell. Only the application server nodes that satisfy the WebSphere Extended Deployment for z/OS install pre-requisites can be customized.

Customizing application servers in the z/OS WebSphere Extended Deployment environment

This task describes how to add WebSphere Extended Deployment for z/OS to a pre-existing Application Server profile.

To add WebSphere Extended Deployment for z/OS to an application server node in a WebSphere Application Network Deployment cell, you must first add WebSphere Extended Deployment to the deployment manager node. See *Configuring the deployment manager*.

Follow these steps to add WebSphere Extended Deployment for z/OS to a pre-existing Application Server profile.

1. Launch the customization dialog from TSO using this command:

```
ex '<was-hlq>.sbboclib(bbowstrt)' 'prod(eex) prodhlq(<xd-hlq>'
```

where:

<was-hlq> is the dataset high level qualifier for the WebSphere Application Server for z/OS product datasets.

Note: Use the level of WebSphere Application Server specified in the WebSphere Extended Deployment for z/OS V6.0.1 Program Directory.

<xd-hlq> is the dataset high level qualifier for the WebSphere Extended Deployment for z/OS product datasets.

2. Choose option 5 in the customization dialog, **WebSphere Application Server-based add-on products**. Then, choose **WebSphere Extended Deployment**.
3. Follow steps a through d (options 1-4 on the customization dialog panel) for **WebSphere Extended Deployment**:
 - a. Allocate datasets to hold WebSphere Extended Deployment customization jobs and data.
 - b. Define the variables for the WebSphere Extended Deployment SMP/E home directory and the WebSphere Application Server home directory. The WebSphere Extended Deployment SMP/E home directory is the directory where WebSphere Extended Deployment was installed. For example,
`/usr/lpp/zWebSphereXD/V6R0`
The WebSphere Application Server home directory is the directory of the WebSphere Application Server instance to which you want to add WebSphere Extended Deployment. For example,
`/WebSphere/V6R0/ApplicationServer`
If the WebSphere cell to which you are adding WebSphere Extended Deployment has security enabled, you must specify **Y** to indicate security is enabled and specify the userid and password of your WebSphere administrator ID. This ID must be authorized to login to the WebSphere console and be granted the administrator role.
 - c. Generate the customization jobs for this WebSphere instance.
 - d. View and follow the customization instructions. The instructions are found in member EEXINS of the <hlq>.CNTL dataset, which you allocated in Step 1 of the WebSphere Extended Deployment customization steps, as described previously.
4. Ensure the deployment manager is running. Ensure the application servers on the node you are customizing are stopped.

5. The customization instructions indicate to execute jobs in this order: EEXSTEP1, EEXSTEP2, and EEXSTEP3. Each job should end with a return code of zero. These jobs are found in the <hlq>.CNTL dataset, which you allocated in Step 1 of the WebSphere Extended Deployment customization steps, as described previously.
6. You can now start the application servers on this node.

After you customize each of the application server nodes to which you intend to add WebSphere Extended Deployment in the target cell, customization of that cell is complete.

Sample generated instructions: Customizing WebSphere Extended Deployment

This topic presents a sample of what the Customization Dialog's generated instructions might look like. This is a sample only. You must use the instructions generated from your own variables when customizing your system.

This sample is based on the installation of WebSphere Extended Deployment for z/OS Version 6.0.1.

Instructions for customizing WebSphere Extended Deployment for z/OS

The customization dialog has created jobs based on the information you provided. These instructions tell you how to run the jobs to customize WebSphere for z/OS.

RULES:

1. If you created the target data sets (*.CNTL and *.DATA) on another (driving) system, you must ensure these datasets are available on the target system with the same names.
2. You must perform these instructions on your target system.
3. You can only perform these instructions on a pre-existing deployment manager or application server node.

Overview of Job Execution:

For the Deployment Manager that WebSphere Extended Deployment is to be added to:

1. Generate the Customized jobs for that server
2. On the target machine, submit the following jobs (and ensure that they have completed successfully):
EEXSTEP1
EEXSTEP2
EEXSTEP3

for each application server node that WebSphere Extended Deployment is to be added to:

1. Generate Customized jobs for that node
2. On the target machine, submit the following jobs (and ensure that they have completed successfully):
EEXSTEP1
EEXSTEP2
EEXSTEP3 (Note: the Deployment Manager must be started for EEXSTEP3 to complete successfully.)

```
+-----+-----+-----+-----+-----+-----+
| EEXSTEP1 | User ID requirement: WSADMIN |
```

Done:	This job configures the runtime HFS to incorporate WebSphere Extended Deployment to Base configuration
By:	Upon completion, examine the job output. Success is indicated with "rc=0" in the job output.

EEXSTEP2	User ID requirement: WSADMIN
Done:	This job augments WebSphere Extended Deployment with the profile of the target server.
By:	Upon completion, examine the job output. Success is indicated with "rc=0".

EEXSTEP3	User ID requirement: WSADMIN
Done:	<p>If the target node is a Deployment Manager, this job will add the WebSphere Extended Deployment Console Extensions to the Administrative Console.</p> <p>If the target node is not a Deployment Manager, this job will sync the target server with its Deployment Manager. Please note that in order for the node synchronization to complete successfully, the target cell's Deployment Manager must be started.</p>
by:	Upon completion, examine the job output. Success is indicated with "rc=0".

Customization Dialog worksheet: WebSphere Extended Deployment for z/OS

Date: _____

System name: _____

Sysplex name: _____

Print out this worksheet and use it when collecting information about the WebSphere Extended Deployment for z/OS Customization Dialog variables. The variables and defaults are provided, along with spaces for you to fill in your own value for each.

WebSphere Extended Deployment for z/OS SMP/E directory

Item	Default	Your value
WebSphere Extended Deployment for z/OS SMP/E directory	/usr/lpp/zWebSphereXD/V6R0	

WebSphere Application Server deployment manager home directory

Item	Default	Your value
Deployment manager directory	/WebSphere/V6R0/DeploymentManager	
Allocated dataset		
SEEXSTEP1 done? <input type="checkbox"/>	SEEXSTEP2 done? <input type="checkbox"/>	SEEXSTEP3 done? <input type="checkbox"/>

WebSphere Application Server server1 home directory

Item	Default	Your value
server1 directory	/WebSphere/V6R0/ApplicationServer	
Allocated dataset		
SEEXSTEP1 done? <input type="checkbox"/>	SEEXSTEP2 done? <input type="checkbox"/>	SEEXSTEP3 done? <input type="checkbox"/>

WebSphere Application Server server2 home directory

Item	Default	Your value
server2 directory	/WebSphere/V6R0/ApplicationServer	
Allocated dataset		
SEEXSTEP1 done? <input type="checkbox"/>	SEEXSTEP2 done? <input type="checkbox"/>	SEEXSTEP3 done? <input type="checkbox"/>

WebSphere Application Server server3 home directory

Item	Default	Your value
server3 directory	/WebSphere/V6R0/ApplicationServer	
Allocated dataset		
SEEXSTEP1 done? <input type="checkbox"/>	SEEXSTEP2 done? <input type="checkbox"/>	SEEXSTEP3 done? <input type="checkbox"/>

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